AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A [[D]]drilling device with a multiblade drilling tool ~~(17)~~, particularly a deep drilling tool, with at least two supply channels ~~(19, 20)~~ by means of which cooling lubricant ~~(28)~~ is supplied to the cutting zone ~~(18)~~, as well as removal channels ~~(35, 36)~~ by means of which the cooling lubricant and chips are removed, ~~characterized in that with~~ wherein the channels ~~(19, 20, 35, 36)~~ are associated with independent cooling lubricant supply devices ~~(25, 26; 64)~~.

2. (Currently amended) The [[D]]drilling device according to claim 1, ~~characterized in that~~ wherein the supply devices ~~(25, 26; 64)~~ are constructed for maintaining predetermined, separate volume flows of the cooling lubricant ~~(28)~~ for the individual channels ~~(19, 20, 35, 36)~~.

3. (Currently amended) The [[D]]drilling device according to claim 1 ~~or 2~~, ~~characterized in that~~ wherein the supply devices ~~(25, 26; 64)~~ are constructed for increasing the cooling lubricant pressure in the case of a reduction of the volume flow in one of the channels ~~(19, 20, 35, 36)~~ as a result of a blockage.

4. (Currently amended) The [[D]]drilling device according to ~~one of the preceding~~ claim[[s]] 1, ~~characterized in that~~ wherein independent pumps ~~(25, 26)~~ or pump chambers are connected to the channels ~~(19, 20)~~.

5. (Currently amended) The [[D]]drilling device according to ~~one of the preceding~~ claim[[s]] 1, ~~characterized in that~~ wherein the channels are connected to the outlets of a quantity divider ~~(64)~~.

6. (Currently amended) The [[D]]drilling device according to ~~one of the preceding~~ claim[[s]] 1, ~~characterized in that~~ wherein the channels are connected to a cooling lubricant supply ~~(23, 24)~~, which is located in a drilling spindle ~~(15)~~ or an adapter ~~(30, 30a)~~, optionally containing a quantity divider ~~(64)~~ and which optionally contains the chuck ~~(16)~~ for the drilling tool ~~(17)~~.

7. (Currently amended) The [[D]]drilling device ~~according to one of the preceding~~ claim[[s]] 1, ~~characterized by~~ further comprising a rotary duct ~~(22)~~ for the cooling lubricant ~~(28)~~.

8. (Currently amended) The [[D]]drilling device ~~according to one of the preceding~~ claim[[s]] 1, ~~characterized in that~~ wherein the introduction of the cooling lubricant ~~(28)~~ into the drilling tool ~~(17)~~ or drilling spindle ~~(15)~~ takes place radially, axially or radially and axially.

9. (Currently amended) The [[D]]drilling device, ~~particularly~~ according to ~~one of the preceding~~ claim[[s]] 1, ~~characterized in that~~ wherein chip spaces ~~(74)~~ formed in a working rotation direction ~~(73)~~ of a multiblade drilling tool ~~(17)~~, upstream of the blade ~~(71)~~ and connected to chip removal channels ~~(35, 36)~~, in cross-section have a rounded side wall ~~(75)~~ following on to the blade ~~(71)~~.

10. (Currently amended) The [[D]]drilling device according to claim 9, ~~characterized in that~~ wherein the chip removal channels ~~(35, 36)~~ also have a rounded side wall ~~(75)~~.

11. (Currently amended) The [[D]]drilling device according to claim 9 ~~or 10~~, ~~characterized in that~~ wherein the rounded side wall ~~(75)~~ extends approximately up to a drilling tool centre plane ~~(77)~~ perpendicular to the blade ~~(71)~~.

12. (Currently amended) The [[D]]drilling device according to ~~one of the preceding~~ claim[[s]] 11, ~~characterized in that~~ wherein, in the vicinity of the drilling tool external diameter, the rounded side wall ~~(75)~~ bounds a substantially circumferentially directed projection ~~(79)~~ projecting into the chip space ~~(74)~~ and on whose outside is preferably formed a guide zone ~~(80)~~ for the drilling tool.

13. (Currently amended) The [[D]]drilling device according to ~~one of the~~ claim[[s]] 9 ~~to 12~~, ~~characterized in that~~ wherein the rounded side wall ~~(75)~~ has the cross-sectional shape of a semicircle or half a long oval.

14. (Currently amended) The [[D]]drilling device, particularly according to ~~one of the preceding~~ claim[[s]] 1, ~~characterized in that~~ wherein in the case of a multiblade drilling tool ~~(19)~~, at least one of the blades ~~(71a)~~, considered in an axial plan view on the drilling tool end face ~~(21)~~, has a bend ~~(84)~~, where two blade sections ~~(71, 85)~~ meet under an angle, preferably between 170° and 120°.

15. (Currently amended) The [[D]]drilling device according to ~~one of the~~ claim[[s]] 9 ~~to 14~~, ~~characterized in that~~ wherein the chip space ~~(74)~~ is shaped in accordance with the side wall and/or blade direction.

16. (Currently amended) The [[D]]drilling device according to ~~one of the~~ claim[[s]] 9 ~~to 15~~, ~~characterized in that~~ wherein the drilling tool ~~(17)~~ has a cutting head ~~(31)~~ and a shank ~~(32)~~ applied thereto, the shank ~~(32)~~ having recesses forming chip removal channels ~~(35, 36)~~ and the cross-sectional shape thereof corresponds to the chip spaces ~~(74)~~.

17. (Currently amended) The [[D]]drilling device according to ~~one of the preceding~~ claim[[s]] 1, ~~characterized by~~ further comprising an adapter ~~(30, 30a)~~ with

independent cooling lubricant infeeds in two separate supply channels ~~(19, 20)~~ in the drilling tool ~~(17)~~.

18. (Currently amended) The [[D]]drilling device according to claim 17, ~~characterized in that~~ wherein a quantity divider ~~(64)~~ is provided in the adapter ~~(30a)~~.

19. (Currently amended) The [[D]]drilling device according to ~~one of the~~ claim[[s]] 17 ~~and 18~~, ~~characterized in that~~ wherein the adapter ~~(30, 30a)~~ contains a chuck for the drilling tool ~~(17)~~.

20. (Currently amended) The [[D]]drilling device according to ~~one of the preceding~~ claim[[s]] 1, ~~characterized in that~~ wherein a drilling spindle ~~(15)~~ is mounted in a headstock ~~(18)~~ and there is a separate cooling lubricant infeed for the two channels ~~(19, 20)~~ into the drilling spindle ~~(15)~~, preferably at the end of the drilling spindle ~~(15)~~ remote from the drilling tool ~~(17)~~.